

C. New Abstract

Please replace the original abstract of the disclosure with the following abstract:

[0070] A motor that includes a stator that contains a first winding and a second winding driven by alternating currents. The rotor is arranged to rotate relative to the stator and contains a third winding and a fourth winding for generating a magnetic field with an amplitude and a phase angle relative to the alternating currents in the first and second windings of the stator. The motor includes a circuit in communication with the third and fourth windings for controlling the phase angle of the magnetic field and generating a rotating magnetic field that is in phase-lock with the alternating currents in the first and second windings of the stator. The motor also includes a control circuit and a comparator. The control circuit has an angular position feedback device for measuring the phase of the stator and the angular position and velocity of the rotor. The comparator compares the actual rotor speed and a desired rotor speed and provides a signal for varying the magnitude of the flux vector to minimize the difference.